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OM protein - protein search, using sw model

Run on: April 23, 2003, 13:00:25 ; Search time 30 seconds
(without alignments)
570.805 Million cell updates/sec

Title: US-09-635-949-34

Perfect score: 3289

Sequence: 1 MDPFLALVIVSSILYLAQAAK.....TGRIGLDDVSLKKCHCSEER 582

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *

- 1: /cgn2_6/ptodata/1/iaa/5A.COMB.pep:*
- 2: /cgn2_6/ptodata/1/iaa/5B.COMB.pep:*
- 3: /cgn2_6/ptodata/1/iaa/6A.COMB.pep:*
- 4: /cgn2_6/ptodata/1/iaa/6B.COMB.pep:*
- 5: /cgn2_6/ptodata/1/iaa/pctus.COMB.pep:*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1092.5	33.2	553	4	US-09-249-697A-6
2	1092.5	33.2	553	4	US-09-363-316B-6
3	1091.5	33.2	553	4	US-09-249-697A-19
4	1091.5	33.2	553	4	US-09-363-316B-24
5	1041.5	31.7	502	4	US-09-363-316B-18
6	1041.5	31.7	537	4	US-09-249-697A-4
7	1041.5	31.7	537	4	US-09-363-316B-4
8	594	18.1	164	4	US-09-249-697A-9
9	594	18.1	164	4	US-09-363-316B-9
10	409.5	12.5	100	4	US-09-249-697A-3
11	409.5	12.5	100	4	US-09-363-316B-3
12	353.5	10.7	443	2	US-08-833-963C-2
13	353.5	10.7	443	3	US-08-980-514-1
14	327	9.9	638	7	US-08-897-443-1
15	327	9.9	835	4	US-09-284-819-6
16	326.5	9.9	448	2	US-08-884-072-1
17	326.5	9.9	448	4	US-09-212-168-1
18	323	9.8	652	2	US-08-751-305-2
19	322.5	9.8	956	2	US-08-897-443-3
20	317	9.6	1833	3	US-08-479-722B-2
21	317	9.6	1833	5	PCT-US95-02251-18
22	314.5	9.6	2556	1	US-08-185-432-17
23	314.5	9.6	2556	1	US-08-083-590A-20
24	314.5	9.6	2556	3	US-08-532-384-20
25	314.5	9.6	2556	4	US-08-899-232-2
26	310.5	9.4	2523	1	US-08-185-432-18
27	310.5	9.4	2523	4	US-08-899-232-3

28	307.5	9.3	337	4	US-09-188-930-186
29	295.5	9.0	1394	6	5177197-30
30	295	9.0	387	2	US-08-884-072-5
31	295	9.0	387	2	US-08-833-963C-9
32	295	9.0	387	3	US-08-980-514-3
33	295	9.0	387	4	US-09-212-168-5
34	290.5	8.8	1964	4	US-09-467-997-1
35	285	8.7	1253	3	US-08-479-722H-4
36	283	8.6	1251	5	PCT-US95-02251-3
37	283	8.6	1252	1	US-08-199-780-3
38	283	8.6	1252	2	US-08-316-650-3
39	282	8.6	274	4	US-09-188-930-336
40	280.5	8.5	728	4	US-08-981-392-2
41	280.5	8.5	1148	4	US-08-882-046-4
42	278	8.5	1219	4	US-08-882-046-5
43	276.5	8.4	1238	4	US-09-214-278-5
44	275.5	8.4	810	2	US-08-820-170A-34
45	275.5	8.4	810	3	US-09-055-699-34

ALIGNMENTS

RESULT 1

US-09-249-697A-6

; Sequence 6, Application US/09249697A

; Patent No. 6392018

; GENERAL INFORMATION:

; APPLICANT: Ford, John

; APPLICANT: Yeung, George

; TITLE OF INVENTION: NOVEL EGF MOTIF PROTEIN OBTAINED FROM A CDNA LIBRARY OF FETAL

; TITLE OF INVENTION: LIVER SPLEEN

; FILE REFERENCE: 24011-727

; CURRENT APPLICATION NUMBER: US/09/249,697A

; CURRENT FILING DATE: 1999-02-12

; PRIOR APPLICATION NUMBER: US 08/968,800

; PRIOR FILING DATE: 1997-11-22

; NUMBER OF SEQ ID NOS: 19

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 6

; LENGTH: 553

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: VARIANT

; LOCATION: (1)...(553)

; OTHER INFORMATION: Xaa = Any Amino Acid

US-09-249-697A-6

Query Match 33.2%; Score 1092.5; DB 4; Length 553;
Best Local Similarity 37.7%; Pred. No. 3.3e-68;
Matches 215; Conservative 96; Mismatches 173; Indels 87; Gaps 14;

QY	34	GLCRYGGRIDCCWARGSGCOPFYVLRQRIARICQIKAVCOPCKHGECIGPNCKK	93
DB	39	GVCYGTGLACCYGRRNRSGVCE-----ATCPGCKFGCVGNCKR	81
QY	94	CHFGVAGTKICQVLNECGLKPRCKHRCMNTYGSYKCYCLNGYMLMDPGSSSALTCSMA	153
DB	82	CFPGYTGKTCSDVDNECGMKPRCOHRCVTHGSKYKCLSGHMLMDATCVNSRTCAMI	141
QY	154	NCQYCGDVVVKGOIRCOCPSPGLQAPDGRTCVDVDFCATGRASCPRKOCVNFQSYICK	213
DB	142	NCQYSCDETEGPQCLCPSSGLRLAPNGRDCIDIDECASGKYICEYNNRCVNTFGSYCK	201
QY	214	CHKGFDMYIGKYCHDIDECISLGOYQCSSFARCVNPGSYKCKKCYOGILTCVYI	273
DB	202	CHIGFELQVIGRYDCIDINECTMDSHTCSHANGCNFQCSKCKCKQCYKONGRCSAI	261
QY	274	PKVMTEPSGPIVKGNGTILKGDGTGNWNWIPDVGVSTWNPPTPYIPPIITNRPTSKPTT	333
DB	262	PNSVK-----EVLRAPGFI-----KDRIKKLLAHKNSMKKA	294

QY	334	R---	PTPKPTPTPTPPPPPLTELETRPLPTPTTTPERTTGLTTIAPASITPG-----	383
DB	295	KIKNVITPRTPTT-----	KVNIQPNYER-----IVSRGGSHGCKKGNKK	338
QY	384	---GTTVDNRVQ-----	TDIQQPCGVDFIPQPSNDLFEIFEIRGVSAIDDEAKNDPCV	434
DB	339	MKEGLEDEKBEKALKNDXEERSLGDVFPFKVNEAGEFGLILVQRKALTSKLEIKDLNI	398	
QY	435	LVHSCNPDHGLGCOWIRKKNDJLHWEP --RDPAGGOYLTVSAAKAPGCKAARILVLPILGRIM	493	
DB	399	SV--IXCSFNHCICWKKQDREDDFWNIPADNDNAIGFYMAVPAIAGHKKIDGRIKLLIPDIQ	457	
QY	494	HSGDCLLSFRUKVTGLUSCTLOWFVRKUKAGNAGLWGRNGGIG--WRQTQITL--RGAD-I	549	
DB	458	POSNNCLILPYRIAGUKVKILRVFVK--NSNNALAWFKTSTSEDEKWKTKIQILOYCTDAT	515	
QY	550	KSVVFKGPKRRKRGHTGELIGIDNVSLKKKCHSC=	580	
DB	516	KSIIIEAERKGGKGTGTAVDGVILVSGICPD	546	

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RESULT 2
US-09-363-316H-6
? Sequence 6, Application US/09363316B
? Patent No. 6392019
? GENERAL INFORMATION:
? APPLICANT: Ford, John
? APPLICANT: Young, George
? TITLE OF INVENTION: EGF MOTIF PROTEIN MATERIALS AND METHODS
? FILE REFERENCE: 28110/35852
? CURRENT APPLICATION NUMBER: US/09/363,316B
? CURRENT FILING DATE: 1999-07-28
? PRIOR APPLICATION NUMBER: US 09/249,697
? PRIOR FILING DATE: 1999-02-12
? PRIOR APPLICATION NUMBER: US 08/968,800
? PRIOR FILING DATE: 1997-11-22
? NUMBER OF SEQ ID NOS: 24
? SOFTWARE: FastSeq for Windows Version 3.0
? SEQ ID NO 6
? LENGTH: 553
? TYPE: PRT
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: (457)
? OTHER INFORMATION: xaa - any amino acid
US-09-363-316H-6

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RESULT 3
US-09-249-697A-19
; Sequence 19, Application US/09249697A
; Patent No. 6392018
; GENERAL INFORMATION:
; APPLICANT: Ford, John
; APPLICANT: Young, George
; TITLE OF INVENTION: NOVEL EGF MOTIF PROTEIN OBTAINED FROM A CHINA LIBRARY OF FETAL
; TITLE OF INVENTION: LIVER SPLEEN
; FILE REFERENCE: 24011-727
; CURRENT APPLICATION NUMBER: US/09/249,697A
; CURRENT FILING DATE: 1999-02-12
; PRIORITY APPLICATION NUMBER: US 08/966,800
; PRIORITY FILING DATE: 1997-11-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-249-697A-19

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Query Match	33.2%	Score 1091.5	DB 4	Length 534
Best Local Similarity	37.7%	Pred. No. 3,9e+68		
Matches	215	Conservative 96	Mismatches 173	Indels 87
				Gaps 14
QY	34	GLCYGGRIDCCWCAWGSQCQPFYVLRHARHRCQLKAVQCPKCKHCHCIGPNCKK	94	
Db	39	GVCHYGTKLACCYGWRNRKSGVCE-----ATTEPGKPGEGVCPGNCKR	81	
QY	94	CHPYAGKTCIQVINEGCIKRPCKHRCNMNTYGVSKYCYCLNICYMLMDPGSSSALITCSMA	153	
Db	82	CFPGYCTKTSQDVNECGMKPRPCQHRVNTGHVSQYKFCCLSCHMLMPLATCVNSKTCAM	141	
QY	154	NCQYGCDDVVKQIIRCOQTPSPGLAPQORTCVDDVECATGRASCPFRFQCYNTHFGSYICK	213	
Db	142	NCQYSCDETHGPOCLCGSSGRLAPNGRDLIDECASGVICVGNFRKYNTHFGSYICK	201	
QY	214	CHKGFOLMYIGCKYQCHIDRCSLIGQYOCSSFAKYNVNGSVKCKKCYGQDGLTTCVYI	273	
Db	202	CHIGFELYISRGYDCIDINECTWHSITCSHIANCFNTGSEFKCKCYGKQNGILRCSAI	261	
QY	274	PKVMIHPSGPIHVPKGNCTILKGTGNNNMWIDVCSSTWMPKTYIPDPIINRIKTSKPTT	343	
Db	262	PENSVK-----EVLRAPTI-----KURIKKILAHKNSMKKKKA	294	
QY	334	R---PTPKPIPT	403	
Db	295	KIKVATPEPTPTPT-----KVMIQPNTEE-----IVSKGNSHGCKKCNIEK	438	
QY	384	---GTVGNRVQ-----TDPKRPGDVFIPROPSNIDIFETETETETESADDEAKDDVY	434	
Db	339	MKEISLEKREKALKNDIERSLRQGVDFPKPVNEANGFEGGILVORKKALTSKLEHJUN	398	

QY 435 LVHSCNFDHGLCGWIREKNDLHWEP1-RDPAGGOYLTVSAAKAPGGKAARLVLPGLRLM 493
DB 399 SV-DCSFNIGICDWDKQREDDPDWADRNAIGFYMAVPALAGHKXDTIGRLKLLPDQ 457
QY 494 HSGDCLSLFRHKVTGLHSGTLOVFRKKAHCAALWGRNGHG--WROQTITL-RCAD-1 549
DB 458 POSNFCLLFDYRLAGDKVKGLRVFK--NSNNALAWKTTSEDEKWKTKIQLYQGTDTAT 515
QY 550 KSVVFKEGKRGRGHTGEIGLDDVSLKKGHCSE 580
DB 516 KSLIFEAEKRGKGTCEIAVDGVLLVSGICPD 546

RESULT 4

US-09-363-316B-24
: Sequence 24, Application US/09363316B
: Patent No. 6392019
: GENERAL INFORMATION:
: APPLICANT: Ford, John
: APPLICANT: Yeung, George
: TITLE OF INVENTION: EGF MOTIF PROTEIN MATERIALS AND METHODS
: FILE REFERENCE: 28110/35852
: CURRENT APPLICATION NUMBER: US/09/363,316B
: CURRENT FILING DATE: 1999-07-28
: PRIOR APPLICATION NUMBER: US 09/249,697
: PRIOR FILING DATE: 1999-02-12
: PRIOR APPLICATION NUMBER: US 08/968,800
: PRIOR FILING DATE: 1997-11-22
: NUMBER OF SEQ ID NOS: 24
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 24
: LENGTH: 553
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-363-316B-24

Query Match 33.2%; Score 1091.5; DB 4; Length 553;
Best Local Similarity 37.7%; Pred. No. 3.9e-68;
Matches 215; Conservative 96; Mismatches 173; Indels 87; Gaps 14;
QY 34 GLCRYGGRIDCCWGWAROSWGOCOPFYVLRQRIARICOLKAVCPCKKHGECIGPKCK 93
DB 39 GVCHYGTKLACCYGWRNSGVCE-----ATCEPCCKFGEVCGVGNKCR 81
QY 94 CHPGYAGKTCIQVNLNCGLKPRCKHRCMNTYGSYKCYCLNGLYMLPDGSCSSALTCSMA 153
DB 82 CFPYTGKTCSDQVNECGMKPRPCQHRVCNTHGSKYKFCCLSGHMLMPDATCVNSRTCAMI 141
QY 154 NCOYGCDDVVKGOIRCOCPSPGLQAPDGRTCVDVDECATGRASCPFRFCVNTFGSYICK 213
DB 142 NCOYSCDETEEGPQCLPSSGLRLAPNGRDCLDIDECASGKVICPYNRRCVNTFGSYICK 201
QY 214 CHKGFDLMYTCGYQCHDIDKCSIGQYOCSSFARCYNVRGSKYKCKEGYQGDGLTCVYI 273
DB 202 CHIGFELQYISGRYDCIDINECHMDSHTCSHHANCFNTQGSFKCKCKQYKGNGLRCSAI 261
QY 274 PKYNIPESGPIHVKNGILKGDGTNNMIPDVGSTWMPKTPYIPPIINRPTSKPTT 333
DB 262 PENSVK-----FVLAPGTI-----KDRIKKLLAHKNSMKKKA 294
QY 334 R---PTPKPTPIPTPPPTPLTELTPPTTPTTGLTTIAPAASTPPG----- 383
DB 295 KINVTPEPTPTTP-----KVNLOPFNYEE-----IVSRGNSHGKKGNEEK 338
QY 384 ---GTVDNRVQ-----TDPQKPRGDVFIPOPSNDLFEIPEIRGVSADEAKDDPGV 434
DB 339 MKEGLEDEKREKALNDIEERSLRCGVFPKVNKAGFGLILVQKALTSKLEHKDINI 398
QY 435 LVHSCNFDHGLCGWIREKNDLHWEP1-RDPAGGOYLTVSAAKAPGGKAARLVLPGLRLM 493
DB 399 SV-DCSFNIGICDWDKQREDDPDWADRNAIGFYMAVPALAGHKXDTIGRLKLLPDQ 457

QY 494 HSGDCLSLFRHKVTGLHSGTLOVFRKKAHCAALWGRNGHG--WROQTITL-RCAD-1 549
DB 458 POSNFCLLFDYRLAGDKVKGLRVFK--NSNNALAWKTTSEDEKWKTKIQLYQGTDTAT 515
QY 550 KSVVFKEGKRGRGHTGEIGLDDVSLKKGHCSE 580
DB 516 KSLIFEAEKRGKGTCEIAVDGVLLVSGICPD 546

RESULT 5

US-09-363-316B-18
: Sequence 18, Application US/09363316B
: Patent No. 6392019
: GENERAL INFORMATION:
: APPLICANT: Ford, John
: APPLICANT: Yeung, George
: TITLE OF INVENTION: EGF MOTIF PROTEIN MATERIALS AND METHODS
: FILE REFERENCE: 28110/35852
: CURRENT APPLICATION NUMBER: US/09/363,316B
: CURRENT FILING DATE: 1999-07-28
: PRIOR APPLICATION NUMBER: US 09/249,697
: PRIOR FILING DATE: 1999-02-12
: PRIOR APPLICATION NUMBER: US 08/968,800
: PRIOR FILING DATE: 1997-11-22
: NUMBER OF SEQ ID NOS: 24
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 18
: LENGTH: 502
: TYPE: PRT
: ORGANISM: Homo sapiens
: NAME/KEY: misc_feature
: LOCATION: (501-502)
: OTHER INFORMATION: Xaa - any amino acid
US-09-363-316B-18

Query Match 31.7%; Score 1041.5; DB 4; Length 502;
Best Local Similarity 37.5%; Pred. No. 1e-64;
Matches 209; Conservative 92; Mismatches 170; Indels 87; Gaps 14;
QY 47 GWAROSWGOCOPFYVLRQRIARICOLKAVCPCKKHGECIGPKCKHGPVAGTKCIQV 106
DB 1 CWRNSKGVCE-----ATCEPCCKFGEVCGVGNKCRFPYGTCTSQD 43
QY 107 LNECGLKPRCKHRCMNTYGSYKCYCLNGLYMLPDGSCSSALTCSMANCOYGCDDVVKGOI 166
DB 44 VNECGMKPRPCQHRVCNTHGSKYKFCCLSGHMLMPDATCVNSRTCAMINCOYSCDETEEGP 103
QY 167 RCOCPSPGLQAPDGRTCVDVDECATGRASCPFRFCVNTFGSYICKKHGFDLMYICK 226
DB 104 QCLCPSSGLRLAPNGRDCLDIDECASGKVICPYNRRCVNTFGSYICKHIGFELQYISGR 163
QY 227 YOCHDIDCSLQYOCSSFARCYNVRGSKYKCKEGYQGDGLTCVYIPKVMIEPSGPIHV 286
DB 164 YDCIDINECTMDSHTCSHHANCFNTQGSFKCKCKQYKGNGLRCSAIPENSVK-----IV 218
QY 287 PKNGTILKGDGTNNMIPDVGSTWMPKTPYIPPIINRPTSKPTT---PTPKPTPI 343
DB 219 LRAPGTI-----KDRIKKLLAHKNSMKKKAIIKNVTPEPTPT 256
QY 344 TTPPPPTPLTELTPPTTPTTPTTGLTTIAPAASTPPG-----GTVDNRVQ- 392
DB 257 TP-----KVNLOPFNYEE-----IVSRGNSHGKKGNEEKMEGLEDEKREK 300
QY 393 -----TDPQKPRGDVFIPOPSNDLFEIPEIRGVSADEAKDDPGVLVHSCNFOHGLCG 447
DB 301 ALKNDIEERSLRCGVFPKVNKAGFGLILVQKALTSKLEHKDINI SV-DCSFNIGICD 359
QY 448 WIREKNDLHWEP1-RDPAGGOYLTVSAAKAPGGKAARLVLPGLRLMHSGLCLSFHRKV 506
DB 360 WKQREDDPDWADRNAIGFYMAVPALAGHKXDTIGRLKLLPDQPOSNEFCLLDYRL 419
QY 507 TGIHSGTLOVFRKKAHCAALWGRNGHG--WROQTITL-RCAD-1KSVVFKGKRRGH 562

Db 420 AGDKVGLRVFVK--NSNNALAWKTTSEDEKWKTKIQLYQGTDTATKSIIFEAERGRGK 477
 QY 563 TGEIGLDDVSLKKHCSE 580
 Db 478 TGEIADVGVLLVSGLCGD 495

RESULT 6

US-09-249-697A-4
 ; Sequence 4, Application US/09249697A
 ; Patent No. 6392018
 ; GENERAL INFORMATION:
 ; APPLICANT: Ford, John
 ; APPLICANT: Young, George
 ; TITLE OF INVENTION: NOVBL EGF MOTIF PROTEIN OBTAINED FROM A CDNA LIBRARY OF FETAL LIVER SPLEEN
 ; FILE REFERENCE: 24011-727
 ; CURRENT APPLICATION NUMBER: US/09/249,697A
 ; PRIOR FILING DATE: 1999-02-12
 ; PRIOR APPLICATION NUMBER: US 08/968,800
 ; PRIOR FILING DATE: 1997-11-22
 ; NUMBER OF SEQ ID NOS: 19
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 4
 ; LENGTH: 537
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: VARIANT
 ; LOCATION: (1)...(537)
 ; OTHER INFORMATION: Xaa - Any Amino Acid
 US-09-249-697A-4

Query Match 31.7%; Score 1041.5; DB 4; Length 537;
 Best Local Similarity 37.5%; Pred. No. 1.1e-64;
 Matches 209; Conservative 92; Mismatches 170; Indels 87; Gaps 14;

QY 47 GWARSWGOCOPFYVLRQRIARICQLKAVCPQCKHGRICGNKCKCHPGYAGTCTIQV 106
 Db 1 GWRNSKGVCE-----ATCPGCKFGVGNPKCKPFGTGTCTSD 43
 QY 107 LNEGGLKPRPKHRCMNTYGSYKCYCLNGYMLMPGSCSSALTCSMANQYCGDYYVVRQI 166
 Db 44 VNEGGMKPRPCQHRVNTGSGYKCYCLSGHMLMPDATCVNSHTCAMINCOYSCDETEEG 103
 QY 167 KCOCPSPGLAPDGRKTCVDVDECATGRASCPHFQCVNTFGSYICKCHKGFILMYIGCK 226
 Db 104 QCLCPSSGLRLAPNGRDCLDIDECASGVICPNRRCVNTFGSYCKCHIGFELQYISGR 163
 QY 227 YQCHDIDRCSIGQYOCSSPARGYKCYKCKKGQYQGDGLTCVYIPKVMIEPSPGPIHV 286
 Db 164 YICIDINECTMDSHTCSHHANCFNTQGSFKCKCKQYKCGKGLRCSAIPNSVK-----EV 218
 QY 287 PKNGTILKGDGTGNNWIPDVGSGTWPPKTPYIPPIITNRPTSKPTTR---PTPKPTPTP 343
 Db 219 LRAPTI-----KDRIKLLAHSNKKKAKIKNVTPEPTPTP 256
 QY 344 TTPPPPLPTELRLPTPTPTPTPTTGLTTIAPAASSTPHG-----GITVINRVQ- 392
 Db 257 TP-----KVNLOPNVEE-----IVSRGNSHGKKGKNEKMEKLEDEKREK 300
 QY 393 -----TDPOKPRGVYIPQPSNDLFEIPELFRGVSAIDDEAKDPPGVLSHSCNTHGLCC 447
 Db 301 ALKNDIEKRSIRGVDVFPKVNAGEFGLIVORKALTSKLEHKDINISV-DCSFNHCID 359
 QY 448 WIREKNDLHWEPI-RDPAGGQYLTSAAKAPGGKAARLVLPGLRLMHSGLCLSLFRHKV 506
 Db 360 WKQDREDDFDNPAADRNAIGFYMAVAPALAGHMKDITGRILKILLPDIQPSNFCILLFDYRL 419
 QY 507 TGLHSCITLOVVRKHCACHCAALWGNCGHG--WROTOITL-RCAD-IKSVVFKGKRRCH 562
 Db 420 AGDKVGLRVFVK--NSNNALAWKTTSEDEKWKTKIQLYQGTDTATKSIIFEAERGRGK 477

QY 563 TGEIGLDDVSLKKHCSE 580
 Db 478 TGEIADVGVLLVSGLCGD 495

RESULT 7

US-09-363-316B-4
 ; Sequence 4, Application US/09363316B
 ; Patent No. 6392019
 ; GENERAL INFORMATION:
 ; APPLICANT: Ford, John
 ; APPLICANT: Young, George
 ; TITLE OF INVENTION: EGF MOTIF PROTEIN MATERIALS AND METHODS
 ; FILE REFERENCE: 28110/35852
 ; CURRENT APPLICATION NUMBER: US/09/363,316B
 ; CURRENT FILING DATE: 1999-07-28
 ; PRIOR FILING DATE: 1999-02-12
 ; PRIOR APPLICATION NUMBER: US 08/968,800
 ; PRIOR FILING DATE: 1997-11-22
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 4
 ; LENGTH: 537
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (503)
 ; OTHER INFORMATION: Xaa - any amino acid
 US-09-363-316B-4

Query Match 31.7%; Score 1041.5; DB 4; Length 537;
 Best Local Similarity 37.5%; Pred. No. 1.1e-64;
 Matches 209; Conservative 92; Mismatches 170; Indels 87; Gaps 14;

QY 47 GWARSWGOCOPFYVLRQRIARICQLKAVCPQCKHGRICGNKCKCHPGYAGTCTIQV 106
 Db 1 GWRNSKGVCE-----ATCPGCKFGVGNPKCKPFGTGTCTSD 43
 QY 107 LNEGGLKPRPKHRCMNTYGSYKCYCLNGYMLMPGSCSSALTCSMANQYCGDYYVVRQI 166
 Db 44 VNEGGMKPRPCQHRVNTGSGYKCYCLSGHMLMPDATCVNSHTCAMINCOYSCDETEEG 103
 QY 167 KCOCPSPGLAPDGRKTCVDVDECATGRASCPHFQCVNTFGSYICKCHKGFILMYIGCK 226
 Db 104 QCLCPSSGLRLAPNGRDCLDIDECASGVICPNRRCVNTFGSYCKCHIGFELQYISGR 163
 QY 227 YQCHDIDRCSIGQYOCSSPARGYKCYKCKKGQYQGDGLTCVYIPKVMIEPSPGPIHV 286
 Db 164 YICIDINECTMDSHTCSHHANCFNTQGSFKCKCKQYKCGKGLRCSAIPNSVK-----EV 218
 QY 287 PKNGTILKGDGTGNNWIPDVGSGTWPPKTPYIPPIITNRPTSKPTTR---PTPKPTPTP 343
 Db 219 LRAPTI-----KDRIKLLAHSNKKKAKIKNVTPEPTPTP 256
 QY 344 TTPPPPLPTELRLPTPTPTPTPTTGLTTIAPAASSTPHG-----GITVINRVQ- 392
 Db 257 TP-----KVNLOPNVEE-----IVSRGNSHGKKGKNEKMEKLEDEKREK 400
 QY 393 -----TDPOKPRGVYIPQPSNDLFEIPELFRGVSAIDDEAKDPPGVLSHSCNTHGLCC 447
 Db 301 ALKNDIEKRSIRGVDVFPKVNAGEFGLIVORKALTSKLEHKDINISV-DCSFNHCID 459
 QY 448 WIREKNDLHWEPI-RDPAGGQYLTSAAKAPGGKAARLVLPGLRLMHSGLCLSLFRHKV 506
 Db 360 WKQDREDDFDNPAADRNAIGFYMAVAPALAGHMKDITGRILKILLPDIQPSNFCILLFDYRL 419
 QY 507 TGLHSCITLOVVRKHCACHCAALWGNCGHG--WROTOITL-RCAD-IKSVVFKGKRRCH 562
 Db 420 AGDKVGLRVFVK--NSNNALAWKTTSEDEKWKTKIQLYQGTDTATKSIIFEAERGRGK 477

QY 563 TGFICIGLDVSLKKGHCSE 580
|||||:|||||:|||||:

Db 478 TGEIAVDGVLVSLGICPD 495
|||||:|||||:|||||:

RESULT 8

US-09-249-697A-9

; Sequence 9, Application US/09249697A

; Patent No. 6392018

; GENERAL INFORMATION:

; APPLICANT: Ford, John

; APPLICANT: Yeung, George

; TITLE OF INVENTION: NOVEL EGF MOTIF PROTEIN OBTAINED FROM A CDNA LIBRARY OF FETAL

; TITLE OF INVENTION: LIVER SPLEEN

; FILE REFERENCE: 24011-727

; CURRENT APPLICATION NUMBER: US/09/249,697A

; CURRENT FILING DATE: 1999-02-12

; PRIOR APPLICATION NUMBER: US 08/968,800

; PRIOR FILING DATE: 1997-11-22

; NUMBER OF SEQ ID NOS: 19

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 9

; LENGTH: 164

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-249-697A-9

Query Match 18.1%; Score 594; DB 4; Length 164;

Best Local Similarity 56.4%; Pred. No. 2.8e-34;

Matches 101; Conservative 32; Mismatches 30; Indels 16; Gaps 5;

QY 92 CACHPCYACKTCIQVLNCGLKPRCKHRCMNTYGSYCYCLNGYMLMPDSCSSALTC 151
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 1 CRCPFGYTKTSQV-NECGMKPRCQHRVNTGSHGKFCFCLSGHMLMPD---VNSRTCA 56
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 152 MANCOYGDVVKGQIRCOCPSPGLQAPDGRTCVDVDECATGRASCPRFCQVNTFGSYI 211
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 57 MINCOYSCDTEEGPQCLCPSSGLRLAP-----NIDECASGKVICPNRRCVNTFGSYI 110
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 212 CKCHKGFDLMYIGKGYOCHDIDCSLGOYQCSSEFARCYNVHGSYKCKEYQGDGLTC 270
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 111 CKCHIGFELQYISGR-----INECTMDSHTCSHHANGFNTQGSF-CKCKQGYKGNGLRC 163
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 9

US-09-363-316B-9

; Sequence 9, Application US/09363316B

; Patent No. 6392019

; GENERAL INFORMATION:

; APPLICANT: Ford, John

; APPLICANT: Yeung, George

; TITLE OF INVENTION: EGF MOTIF PROTEIN MATERIALS AND METHODS

; FILE REFERENCE: 28110/35852

; CURRENT APPLICATION NUMBER: US/09/363,316B

; CURRENT FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: US 09/249,697

; PRIOR FILING DATE: 1999-02-12

; PRIOR APPLICATION NUMBER: US 08/968,800

; PRIOR FILING DATE: 1997-11-22

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 9

; LENGTH: 164

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-363-316B-9

Query Match 18.1%; Score 594; DB 4; Length 164;

Best Local Similarity 56.4%; Pred. No. 2.8e-34;

Matches 101; Conservative 32; Mismatches 30; Indels 16; Gaps 5;

QY 92 CACHPCYACKTCIQVLNCGLKPRCKHRCMNTYGSYCYCLNGYMLMPDSCSSALTC 151
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 1 CRCPFGYTKTSQV-NECGMKPRCQHRVNTGSHGKFCFCLSGHMLMPD---VNSRTCA 56
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 152 MANCOYGDVVKGQIRCOCPSPGLQAPDGRTCVDVDECATGRASCPRFCQVNTFGSYI 211
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 57 MINCOYSCDTEEGPQCLCPSSGLRLAP-----NIDECASGKVICPNRRCVNTFGSYI 110
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 212 CKCHKGFDLMYIGKGYOCHDIDCSLGOYQCSSEFARCYNVHGSYKCKEYQGDGLTC 270
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 111 CKCHIGFELQYISGR-----INECTMDSHTCSHHANGFNTQGSF-CKCKQGYKGNGLRC 163
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 10

US-09-249-697A-3

; Sequence 3, Application US/09249697A

; Patent No. 6392018

; GENERAL INFORMATION:

; APPLICANT: Ford, John

; APPLICANT: Yeung, George

; TITLE OF INVENTION: NOVEL EGF MOTIF PROTEIN OBTAINED FROM A CDNA LIBRARY OF FETAL

; TITLE OF INVENTION: LIVER SPLEEN

; FILE REFERENCE: 24011-727

; CURRENT APPLICATION NUMBER: US/09/249,697A

; CURRENT FILING DATE: 1999-02-12

; PRIOR APPLICATION NUMBER: US 08/968,800

; PRIOR FILING DATE: 1997-11-22

; NUMBER OF SEQ ID NOS: 19

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 3

; LENGTH: 100

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-249-697A-3

Query Match 12.5%; Score 409.5; DB 4; Length 100;

Best Local Similarity 56.1%; Pred. No. 9.8e-22;

Matches 64; Conservative 17; Mismatches 16; Indels 17; Gaps 1;

QY 47 GWAKOSWGOCQPFYVLKQRIARICQLKAVCQPRCKHGECTGPNKCKCHPGYACKTCIQV 106
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 1 GWRNSKGVCE-----ATCEPGCKFGEVGNPKKRCFCPGYTKTSQD 43
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 107 LNEGCLKPRCKHRCMNTYGSYCYCLNGYMLMPDSCSSALTCSSMANCOYCCD 160
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Db 44 VNECOMKPRCQHRVNTGSHGKFCFCLSGHMLMPDTCVNSRTCAMINCQVSC 97
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 11

US-09-363-316B-3

; Sequence 3, Application US/09363316B

; Patent No. 6392019

; GENERAL INFORMATION:

; APPLICANT: Ford, John

; APPLICANT: Yeung, George

; TITLE OF INVENTION: EGF MOTIF PROTEIN MATERIALS AND METHODS

; FILE REFERENCE: 28110/35852

; CURRENT APPLICATION NUMBER: US/09/363,316B

; CURRENT FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: US 09/249,697

; PRIOR FILING DATE: 1999-02-12

; PRIOR APPLICATION NUMBER: US 08/968,800

; PRIOR FILING DATE: 1997-11-22

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 3

; LENGTH: 100

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-363-316B-3

Query Match 12.5%; Score 409.5; DB 4; Length 100;

Best Local Similarity 56.1%; Pred. No. 9.8e-22;

Matches 64; Conservative 17; Mismatches 16; Indels 17; Gaps 1;

Search completed: April 23, 2003, 13:04:12
Job time : 33 secs
